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UTILITY
PATENT APPLICATION
TRANSMITTAL

Attorney Docket No.		No.	TGR-102US	0
First In	ventor	Cal	vin R. Krusen	Ā,
	System	And N	Method For Cavity Ring-Down Spectroscopy Using	70

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	IIVAI	IOMITTAL		Title	Continuously Va	arying Conti	nuous Wave	Excitation	7.5	
(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))			Evamo	ss Mail Label No.	EV 225	927-505 US		D 7		
				Expres	is mail Label No.	_	mmissioner		80	
See MPEP c		ICATION ELEM ming utility patent appl		A	DDRESS T	O: Ma	iil Stop Pater D. Box 1450	nt Application	22	
				- ,	. CD-ROM					
1. 🛛 F	ee Transmittal Submit an original an	Form (e.g., PTO/SB od a duplicate for fee proce	8/17) essing		Computer	Program	(Appendix)	, 10.90 10.00		
	applicant claims see 37 CFR 1.2	small entity status. 7.	8	Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)						
	Specification [Total Pages (preferred arrangement set forth below - Descriptive title of the Invention				 a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or 					
		s to Related Application ding Fed sponsored R			ii. ☐ pap		ina identity	of above copies		
-	Reference to sequ	uence listing, a table, rogram listing appendix		\vdash				ATIONS PARTS		
	Background of the	e Invention	`	١,				eet & document(s))		
-		of the Drawings (if file	d)	i i).					
	Detailed Descripti Claim(s)	ion			hen there is an			Attorney		
	Abstract of the Di			. 1	I. 🗌 English T	Franslation	Documen	t (if applicable)		
	awing(s) (35 U.S			Si	12. Information Disclosure					
5. Oath or I	+	[<i>Total Pa</i> d (original or copy)	ages 2	1:	13. Preliminary Amendment					
b. 🗌	Copy from a pri	ior application (37 C ion/divisional with B		, 14	14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)					
i.	Signed state	OF INVENTOR(S) ement attached dele		1	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)					
с П		he prior application, and 1.33(b). eclaration	see 37 CFR	10	16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35					
			.76		or its equ		ant mast a	Madirionni Torobroo		
6. Application Data Sheet. See 37 CFR 1.76					7. 🛛 Other:	Check				
				pply the	requisite informa	tion below	and in a pr	eliminary amendment,		
· Conti	or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No:/									
	plication information		 The entire disclosu	re of the		<i>Froup / Art U</i> n. from whi		or declaration is supplied	d	
under Box 5	b, is considered	a part of the disclos	ure of the accomp	anying o	ontinuation or di	ivisional ap	plication a	nd is hereby incorporate mitted application parts.		
			19. CORRESP	ONDE	NCE ADDRESS					
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Country			Telephone			F	-ax			
Name (Prin	nt/Type)	Jacques Etkowicz		Reg	Registration No. (Attorney/Agent) 41,738					
Signature	Signature Date September 22, 2003									
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This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) a application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, and application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Mall Stop Patent Application, P.O. Box 1450, Alexandria, VA 22313-1450.

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CCC TO AN COUTTAL	Complete if Kn wn				
FEE TRANSMITTAL	Application Number	To Be Assigned			
for FY 2003	Filing Date	Herewith			
Effective 01/01/2003. Patent fees are subject to annual revision.	First Named Inventor	Calvin R. Krusen			
M A 1 4 1	Examiner Name				
Applicant claims small entity status. See 37 CFR 1.27	Art Unit				
TOTAL AMOUNT OF PAYMENT (\$) 538	Attorney Docket No.	TGR-102US			

(1)							
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)						
☐ Check ☐ Credit Card ☐ Money ☐ Other ☐ None		DITION. Entity		S Entity			
Order Deposit Account:	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	
Deposit	1051	130	2051	65	Surcharge - late filing fee or oath		
Account Number Ratner Prestia	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.		
Deposit Account Name	1053	130	1053	130	Non-English specification		
The Commissioner is authorized to: (check all that apply)	1812	2,520	1812	2,520	For filing a request for ex parte reexamination		
Charge fee(s) indicated below	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		
 ☑ Credit any overpayments ☑ Charge any additional fee(s) during the pendency of this application ☐ Charge fee(s) indicated below, except for the filling fee to the 	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		
above-identified deposit account.	1251	110	2251	55	Extension for reply within first month		
FEE CALCULATION	1252	410	2252	205	Extension for reply within second month		
BASIC FILING FEE	1253	930	2253	465	Extension for reply within third month		
Large Entity Small Entity	1254	1,450	2254	725	Extension for reply within fourth month		
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	1255	1,970	2255	985	Extension for reply within fifth month		
Code (\$) Fee Paid 1001 750 2001 375 Utility filing fee 375	1401	320	2401	160	Notice of Appeal		
1002 330 2002 165 Design filing fee	1402	320	2402	160	Filing a brief in support of an appeal		
1003 520 2003 260 Plant filing fee	1403	280	2403	140	Request for oral hearing		
1004 750 2004 375 Reissue filing fee 1005 160 2005 80 Provisional filling fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
	1452	110	2452	55	Petition to revive – unavoidable		
SUBTOTAL (1) (\$) 375	1453	1,300	2453	650	Petition to revive – unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,300	2501	650	Utility issue fee (or reissue)		
Extra Fee from Fee Claims below Paid	1502	470	2502	235	Design issue fee		
Total Claims 29 -20** = 9 X 9 = 81	1503	630	2503	315	Plant issue fee		
Independent Glaims = 1 X 42 = 42							
	1460	130	1460	130	Petitions to the Commissioner		
Dependent X = 0	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)		
Large Entity Small Entity	1806	180	1806	180	Submission of Information Disclosure Stmt		
Fee Fee Fee Fee Description Code (\$) Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00	
1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	Filing a submission after final rejection (37 CFR § 1.129(a))		
1201	1810	750	2810	375	For each additional invention to be		
1204 84 2204 42 ** Reissue independent claims over original patent	1801	750	2801	375	examined (37 CFR § 1.129(b)) Request for Continued Examination (RCE)		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application		
SUBTOTAL (2) (\$) 123	Other	fee (sp	ecify)				
(4) 120			•	Filing Fe	e Paid SUBTOTAL (3) (\$) 40		
**or number previously paid, if greater: For Reissues, see above	1			-	(4) 40	1	

SUBMITTED BY Complete (if applicable)						
Name (Print/Type)	Jacques Etkowicz	Registration No. Attorney/Agent)	41,738	Telephone	610-407-0700	
Signature		11/2/2		Date	9/4/03	

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CERTIFICATE OF MAI Applicant(s): Calvin R. Kr	Docket No. TGR-102US						
Serial No.	Filing Date	Examiner	Group Art Unit				
To Be Assigned Herewith							
Invention: SYSTEM AND	METHOD FOR CAVITY RIN	IG-DOWN SPECTROSC	OPY USING CONTINUOUSLY				

VARYING CONTINUOUS WAVE EXCITATION

I hereby certify that the following correspondence:

Utility Transmittal; Fee Transmittal in duplicate; Specification (17 pgs.); Drawings (8 sheets); Executed Declaration/POA (2 pgs.); Assignment (2 pgs); Assignment Recordation Cover Sheet (1 pg); IDS (2 pgs.); 1449 (2 pgs); Copies of 2 cited references; Check; Postcard

(Identify type of correspondence)

- . Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to:
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Kathleen Libby

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